## Part 1 -- Amendment to the Claims

1. (Original) A method for probing a semiconductor wafer having a front side on which an integrated circuit (IC) is formed and a back side opposite the front side, comprising the steps of:

placing the wafer onto a probe fixture;

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retaining the wafer to the probe fixture in a position in which the front side of the wafer is initially facing up;

extending a probe tip of at least one probe from the probe fixture into contact with a contact point of the IC while the wafer is retained in the probe fixture; and

optically examining the IC retained to the probe fixture.

2. (Original) A method as defined in claim 1 further comprising the steps of:

turning over the probe fixture while each probe tip extends into contact with a contact point of the IC to cause the back side of the wafer to face upward; and

viewing the back side of the wafer while optically examining the IC.

3. (Original) A method as defined in claim 2 further comprising the step of:

electrically connecting each probe to supply one of power or signals to the probe before turning the probe fixture over.

4. (Original) A method as defined in claim 2 further comprising the step of:

retaining the wafer in a recess of the probe fixture initially and after turning over the probe fixture.

5. (Currently Amended) A method as defined in claim 4 for probing a semiconductor wafer having a front side on which an integrated circuit (IC) is

formed and a back side opposite the front side, further comprising the steps step of:

5 placing the wafer onto a probe fixture;

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retaining the wafer in a recess of the probe fixture in a position in which the front side of the wafer is initially facing up:

extending a probe tip of at least one probe from the probe fixture into contact with a contact point of the IC while the wafer is retained in the probe fixture;

optically examining the IC retained to the probe fixture; and applying one of reduced pressure or vacuum to the wafer to retain the wafer in the recess.

6. (Original) A method as defined in claim 5 further comprising the step of:

retaining peripheral edges of the wafer on a supporting surface within the recess; and

applying the one of the reduced pressure or vacuum to the peripheral edges of the wafer through holes in the supporting surface.

7. (Original) A method as defined in claim 6 further comprising the step of:

communicating the one of the reduced pressure or vacuum through the probe fixture to the holes in the supporting surface.

8. (Original) A method as defined in claim 1 further comprising the step of:

supporting the entire probe above the wafer when the probe tip extends into contact with a contact surface of the IC.

9. (Original) A method as defined in claim 8 further comprising the steps of:

connecting the probe to a probe adjustment device; and

supporting the position adjustment device above the wafer.

10. (Original) A method as defined in claim 9 further comprising the step of:

adjusting the position of the probe tip on the contact surface of the IC by manipulating the position adjustment device while the position adjustment device is supported above the wafer.

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11. (Currently Amended) A method as defined in claim 8 for probing a semiconductor wafer having a front side on which an integrated circuit (IC) is formed and a back side opposite the front side, further comprising the steps of:

placing the wafer onto a probe fixture;

retaining the wafer to the probe fixture in a position in which the front side of the wafer is initially facing up;

extending a probe tip of at least one probe from the probe fixture into contact with a contact point of the IC while the wafer is retained in the probe fixture;

optically examining the IC retained to the probe fixture;
extending a rail across and above the wafer retained in the probe
fixture; and

supporting the entire probe from the rail above the wafer <u>when the</u> <u>probe tip extends into contact with a contact surface of the IC.</u>

12. (Original) A method as defined in claim 11 further comprising the step of:

adjusting the position of the probe tip relative to the wafer by moving the entire probe along the rail.

13. (Original) A method as defined in claim 12 further comprising the steps of:

connecting a pair of second parallel rails to the probe fixture to extend on opposite sides of the recess and generally transverse to the rail first aforesaid;

movably connecting the first rail to the pair of second rails; and moving the first rail along the pair of second rails to position the entire probe above the wafer.

14. (Original) A method as defined in claim 1 further comprising the step of:

optically examining the IC on the wafer using a photoemission detection microscope.

15. (Original) A method as defined in claim 1 further comprising the steps of:

placing the probe fixture a platen of a test station; and retaining the probe fixture to the platen.

16-20. (Canceled)